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\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express guery preparation.

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FULL SEARCH INITIATED 12:31:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 503 TO ITERATE

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425 ANSWERS

SEARCH TIME: 00.00.01

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COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 334.32 334.74

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FILE COVERS 1907 - 11 Nov 2006 VOL 145 ISS 21 FILE LAST UPDATED: 10 Nov 2006 (20061110/ED)

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L5 3 L4

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- L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2005:1075795 CAPLUS
- DN 143:347334
- TI Preparation of quinuclidine indazole, benzothiazole, benzisothiazole and benzisoxazoles as ligands for the  $\alpha 7$  nicotinic acetylcholine receptor
- IN Xie, Wenge; Herbert, Brian; Schumacher, Richard; Nguyen, Truc Minh; Ma, Jianguo; Gauss, Carla Maria; Tehim, Ashok
- PA Memory Pharmaceuticals Corporation, USA

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SO
     PCT Int. Appl., 300 pp.
     CODEN: PIXXD2
DT
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     English
LA
FAN.CNT 1
     PATENT NO.
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AB Quinuclidine derivs. of formula I [Y = NR1C(X)A, C(X)NR1A, NR1CH2A, CH2NR1A; A = (substituted) indazole, benzothiazole, benzoisothiazole or benzisoxazole; X = O, S; R1 = H, alkyl, haloalkyl, cycloalkyl, cycloalkyl-alkyl] are prepared as ligands for nicotinic acetylcholine receptors (nACh receptors), especially the α7 nACh receptor subtype. The compds. can be used for the treatment of disease conditions associated with defective or malfunctioning nicotinic acetylcholine receptors, especially of the

brain. Thus, II was prepared  $\,$  The binding affinities of the prepared compds. were between 2 nM and 25  $\mu M.$ 

IT 865884-27-1P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of quinuclidine indazole, benzothiazole, benzoisothiazole and benzisoxazole derivs. as ligands for  $\alpha 7$  nACh receptor subunit)

RN 865884-27-1 CAPLUS

CN 1H-Indazole-3-carboxamide, N-(3S)-1-azabicyclo[2.2.2]oct-3-yl-6-ethynyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

- L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2004:287845 CAPLUS
- DN 140:321562
- TI Preparation of quinuclidinyl indazoles, benzothiazoles and benzoisothiazoles for use in pharmaceutical compositions as nicotinic acetylcholine receptor ligands
- IN Tehim, Ashok; Herbert, Brian; Nguyen, Truc Minh; Xie, Wenge; Gauss, Carla Maria
- PA Memory Pharmaceuticals Corporation, USA
- SO PCT Int. Appl., 147 pp.
  - CODEN: PIXXD2
- DT Patent
- LA English

CNT 1																
PATENT NO.					KIND DATE			APPLICATION NO.					DATE			
WO 2004029050			A1 20040408			WO 2003-US29976					20030925					
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OS MARPAT 140:321562

GI

AB Quinuclidine derivs., such as RNHC(:X)W, RC(:X)NHW, RNHCH2W and RCH2NHW [R = quinuclidinyl; W = indazolyl, benzothiazolyl, benzoisothiazolyl; X = O, S], were prepared for therapeutic use as nicotinic acetylcholine receptor α7 (α7 nAChR) ligands for the treatment of psychotic or neurodegenerative diseases and disorders involving dysfunction of the cholinergic system. These quinuclidines are claimed for use in the treatment of dementia or memory impairment due to mild cognitive impairment due to Alzheimer's disease, schizophrenia, Parkinson's disease, Huntington's disease, Pick's disease, Creutzfeldt-Jakob disease, depression, aging, head trauma, stroke, CNS hypoxia, cerebral senility, or multiinfarct dementia. These quinuclidines are also claimed for use in the treatment of intoxication, damage associated with strokes, ischemia and glutamate-induced excitotoxicity, smoking cessation or nicotine addiction, pain, jet lag, obesity, diabetes, mild cognitive impairment (MCl), vascular dementia (VaD), age-associated cognitive decline (AACD), amnesia

associated with open-heart-surgery, cardiac arrest, general anesthesia, memory deficits from exposure to anesthetic agents, sleep deprivation induced cognitive impairment, chronic fatigue syndrome, narcolepsy, AIDS-related dementia, epilepsy-related cognitive impairment, Down's syndrome, alcoholism related dementia, drug/substance induced memory impairments, dementia puglistica (boxer syndrome), or loss of cholinergic synapses. Thus, N-quinuclidinyl-amide I was prepared via an amidation reaction of 1,2-benzisothiazole-3-carboxylic acid with 3-(R)-aminoquinuclidine dihydrochloride in a 5/1 mixture of THF/DMF using diisopropylethylamine and HATU.  $\alpha 7$  NAChR activity of the prepared quinuclidines were determined using rat brain tissue in a competition assay with [3H]-MLA.

IT 677305-07-6P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of N-quinuclidinyl indazoles, benzothiazoles and

(preparation of N-quinuclidinyl indazoles, benzothiazoles and benzoisothiazoles for use in pharmaceutical compns. as nicotinic acetylcholine receptor ligands)

RN 677305-07-6 CAPLUS

CN 1H-Indazole-3-carboxamide, N-(3R)-1-azabicyclo[2.2.2]oct-3-yl-5-bromo-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

## RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:597958 CAPLUS

DN 135:166827

Preparation of 1H-indole-3-carboxamides, 1H-indazole-3-carboxamides, 1H-pyrido[4,3-b]indol-1-ones and pyrrolo[1,2,3-de]-1,4-benzoxazine-6-carboxamides as cannabinoid receptor modulators for treating respiratory and non-respiratory diseases

IN Leftheris, Katerina; Zhao, Rulin; Chen, Bang-Chi; Kiener, Peter; Wu, Hong; Pandit, Chennagiri R.; Wrobleski, Stephen; Chen, Ping; Hynes, John, Jr.; Longphre, Malinda; Norris, Derek J.; Spergel, Steven; Tokarski, John

PA Bristol-Myers Squibb Company, USA; et al.

SO PCT Int. Appl., 199 pp. CODEN: PIXXD2

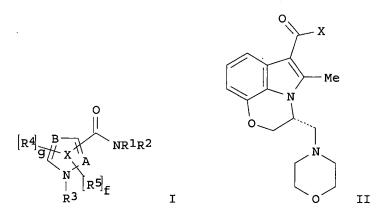
DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
ΡI	WO 2001058869	A2	20010816	WO 2001-US4131	20010208		
	WO 2001058869	A3	20020124				

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AB The title compds. [I; A, B = C, N so that ring X = pyrrole, pyrazole or imidazole (wherein when A = N, the group CONR1R2 is attached to atom C-3 and R5 does not exist; and when A = C, one of CONR1R2 and R5 is attached

to A and the other to atom C-3; and when B = C, two R4 groups attached to B and atom C-5, resp., form a fused 6-membered heteroaryl); f = 0-1; g = 1-2; R1, R2 = H, alkyl, heterocycloalkyl, etc.; R2 together with R1 or R5 forms a 5-6 membered heterocyclo; R3 = H, alkyl, aryl, etc.; R4 is attached to atom C-5 and optionally B and is H, alkyl, aryl, etc.; R5 is attached to A or atom C-3 and is H, alkyl, aryl, etc.; R5 together with R2 forms a heterocyclo], useful as cannabinoid receptor modulators (no data given) for treating respiratory and non-respiratory leukocyte-activation associated diseases, were prepared Thus, reacting the acid chloride II [X = C1] (multi-step synthesis given) with 2,2,6,6-tetramethylcyclohexylamine afforded the pyrrolo[1,2,3-de]-1,4-benzoxazine-6-carboxamide II [X = 2,2,6,6-tetramethylcyclohexylamino].

IT 354570-70-0P

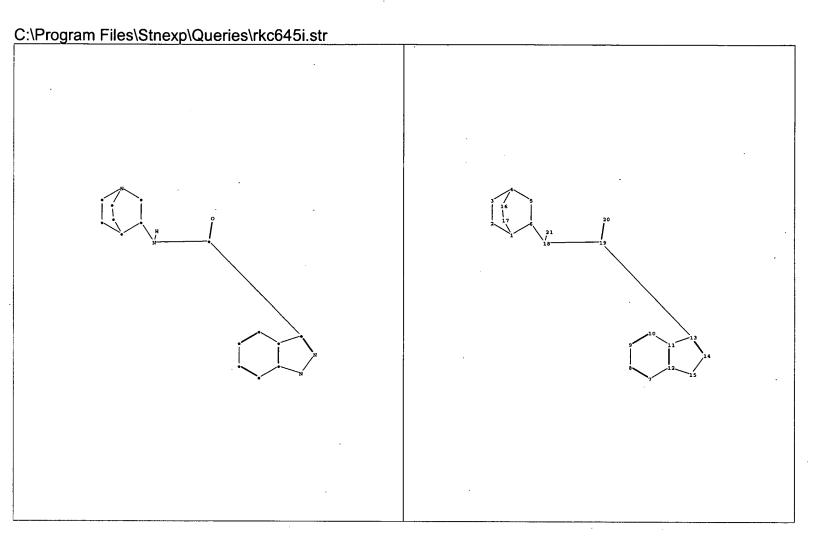
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 1H-indole-3-carboxamides, 1H-indazole-3-carboxamides, 1H-pyrido[4,3-b]indol-1-ones and pyrrolo[1,2,3-de]-1,4-benzoxazine-6-carboxamides as cannabinoid receptor modulators for treating respiratory and non-respiratory diseases)

RN 354570-70-0 CAPLUS

CN 1H-Indazole-3-carboxamide, N-(3R)-1-azabicyclo[2.2.2]oct-3-yl-7-methoxy-1-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



chain nodes:

18 19 20 21

ring nodes:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

chain bonds:

6-18 13-19 18-19 18-21 19-20

ring bonds:

1-2 1-6 1-17 2-3 3-4 4-5 4-16 5-6 7-8 7-12 8-9 9-10 10-11 11-12 11-13 12-15 13-14 14-15 16-17

exact/norm bonds:

1-2 1-6 1-17 2-3 3-4 4-5 4-16 5-6 6-18 12-15 13-14 14-15 16-17 18-19 19-20

exact bonds:

11-13 13-19 18-21

normalized bonds:

7-8 7-12 8-9 9-10 10-11 11-12

isolated ring systems:

containing 1: 7:

## Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLAS\$19:CLAS\$20:CLAS\$21:CLAS\$